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1. Document ID: US 5283153 A

L9: Entry 1 of 9

File: USPT

Feb 1, 1994

US-PAT-NO: 5283153

DOCUMENT-IDENTIFIER: US 5283153 A

TITLE: Encapsulated toner processes

DATE-ISSUED: February 1, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sacripante; Guerino G.	Oakville			CA
Kmiecik-Lawrynowicz; Grazyna E.	Burlington			CA
Tan; Hock S.	Burlington			CA
Patel; Raj D.	Oakville			CA

US-CL-CURRENT: 430/110.2

ABSTRACT:

A process for the preparation of encapsulated toner compositions which comprises dispersing a mixture of addition monomers, an optional preformed polymer resin, a free radical initiator, a colorant comprised of a pigment, dye or mixtures thereof, and shell forming monomer in an aqueous medium containing a cellulose polymer and a first ionic surfactant thereby forming a stable microdroplet suspension; and subsequently adding an aqueous solution of a second stabilizing surfactant followed by the formation of a soluble monomer forming shell wall by interfacial polymerization, and thereafter initiating and completing the core resin-forming free radical polymerization by heating thereby resulting in toner compositions with an average volume particle size of from about 3 to about 7 microns.

22 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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2. Document ID: US 5231117 A

L9: Entry 2 of 9

File: USPT

Jul 27, 1993

US-PAT-NO: 5231117

DOCUMENT-IDENTIFIER: US 5231117 A

TITLE: High solids CB printing ink which produces a black image

DATE-ISSUED: July 27, 1993

INVENTOR-INFORMATION:

surface modification
Jeffrey + capsule
cutting out

NAME	CITY	STATE	ZIP CODE	COUNTRY
Seitz; Michael E. A.	Dayton	OH		

US-CL-CURRENT: 523/161; 264/4.7, 503/207

ABSTRACT:

A high solids content, aqueous, microcapsule-containing printing ink is prepared by forming microcapsules in situ in a printing ink vehicle. The microcapsules are preferably prepared by interfacial polymerization or interfacial crosslinking between a reactant, such as a polyisocyanate dissolved in an oily solution and a coreactant such as a polysalt of casein and diethylene triamine present in an aqueous solution into which the oily solution is dispensed. The aqueous solution contains water and preferably a non-volatile diluent such as a non-reducing sugar, for example methyl glucoside. The oil-containing microcapsules contain an oil solvent and a mixture of dye precursors which upon reaction with a color developer produces an intense black image. The printing ink preferably has a 60-70% by weight solids content and may be used as a low-coat-weight CB coating for preparing carbonless copy paper.

7 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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3. Document ID: US 5139915 A

L9: Entry 3 of 9

File: USPT

Aug 18, 1992

US-PAT-NO: 5139915

DOCUMENT-IDENTIFIER: US 5139915 A

TITLE: Encapsulated toners and processes thereof

DATE-ISSUED: August 18, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moffat; Karen A.	Brantford			CA
Mychajlowskij; Walter	Georgetown			CA
Paine; Anthony J.	Mississauga			CA
Hsieh; Bing R.	Webster	NY		

US-CL-CURRENT: 430/110.2; 430/124, 430/138

ABSTRACT:

An encapsulated toner composition comprised of a core comprised of a monomer, or monomers which are subsequently polymerized; pigment or dye particles; an emulsifier component selected from the group consisting of organic methyl cellulose and hydroxylated methyl cellulose components into which the pigmented monomer mixture is dispersed, and wherein the core is encapsulated within a polymeric shell.

73 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC	Draw Desc	Image
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4. Document ID: US 5132271 A

L9: Entry 4 of 9

File: USPT

Jul 21, 1992

US-PAT-NO: 5132271

DOCUMENT-IDENTIFIER: US 5132271 A

TITLE: Carbonless copy paper sheet bearing a high solids CB printing ink containing a protective colloid blend

DATE-ISSUED: July 21, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Seitz; Michael E. A.	Dayton	OH		

US-CL-CURRENT: 503/213; 264/4.7, 428/402.21

ABSTRACT:

A high solids content, aqueous, microcapsule-containing printing ink is prepared by forming microcapsules in situ in a printing ink vehicle. The microcapsules are preferably prepared by interfacial polymerization or interfacial crosslinking between a reactant, such as a polyisocyanate dissolved in an oily solution and a coreactant such as a polysalt of casein and diethylene triamine present in an aqueous solution into which the oily solution is dispensed. The aqueous solution contains water and a non-volatile diluent such as a non-reducing sugar, for example methyl glucoside. The printing ink preferably has a 60-70% by weight solids content and may be used as a low-coat-weight CB coating for preparing carbonless copy paper.

4 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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5. Document ID: US 5037716 A

L9: Entry 5 of 9

File: USPT

Aug 6, 1991

US-PAT-NO: 5037716

DOCUMENT-IDENTIFIER: US 5037716 A

TITLE: Encapsulated toners and processes thereof

DATE-ISSUED: August 6, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moffat; Karen A.	Brantford			CA

US-CL-CURRENT: 430/110.2; 430/108.8, 430/111.4, 430/137.12, 430/138

ABSTRACT:

An encapsulated toner composition comprised of a core comprised of a preformed polymer and/or monomer or monomers, a free radical initiator, pigment or dye particles, which core is dispersed in an emulsifier solution, and subsequently encapsulated in a polymeric shell and wherein the toner is stabilized by dispersants during core polymerization, which dispersant is of the following formula ##STR1## wherein x represents the number of repeating units.

76 Claims, 0 Drawing figures
Exemplary Claim Number: 20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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6. Document ID: US 4940739 A

L9: Entry 6 of 9

File: USPT

Jul 10, 1990

US-PAT-NO: 4940739

DOCUMENT-IDENTIFIER: US 4940739 A

TITLE: Process for making a high solids CB printing ink

DATE-ISSUED: July 10, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Seitz; Michael E. A.	Dayton	OH		

US-CL-CURRENT: 523/161, 106/31.33, 106/31.37, 106/31.55, 106/31.65, 106/31.69,
106/31.84, 264/4.7, 503/214, 503/215, 523/210

ABSTRACT:

A high solids content, aqueous, microcapsule-containing printing ink is prepared by forming microcapsules in situ in a printing ink vehicle. The microcapsules are preferably prepared by interfacial polymerization or interfacial crosslinking between a reactant, such as a polyisocyanate dissolved in an oily solution and a coreactant such as a polysalt of casein and diethylene triamine present in an aqueous solution into which the oily solution is dispensed. The aqueous solution contains water and a non-volatile diluent such as a non-reducing sugar, for example methyl glucoside. The printing ink preferably has a 60-70% by weight solids content and may be used as a low-coat-weight CB coating for preparing carbonless copy paper.

11 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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7. Document ID: US 4940738 A

L9: Entry 7 of 9

File: USPT

Jul 10, 1990

US-PAT-NO: 4940738

DOCUMENT-IDENTIFIER: US 4940738 A

TITLE: High solids CB printing ink containing a protective colloid blend

DATE-ISSUED: July 10, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Seitz; Michael E. A.	Dayton	OH		

US-CL-CURRENT: 523/161; 106/31.33, 106/31.37, 106/31.55, 106/31.65, 106/31.69,
106/31.84, 264/4.7, 503/214, 503/215, 523/210

ABSTRACT:

A high solids content, aqueous, microcapsule-containing printing ink is prepared by forming microcapsules in situ in a printing ink vehicle. The microcapsules are preferably prepared by interfacial polymerization or interfacial crosslinking between a reactant, such as a polyisocyanate dissolved in an oily solution and a coreactant such as a polysalt of casein and diethylene triamine present in an aqueous solution into which the oily solution is dispensed. The aqueous solution contains water and a non-volatile diluent such as a non-reducing sugar, for example methyl glucoside. The printing ink preferably has a 60-70% by weight solids content and may be used as a low-coat-weight CB coating for preparing carbonless copy paper.

12 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KVMC Draw Desc Image

8. Document ID: US 4937167 A

L9: Entry 8 of 9

File: USPT

Jun 26, 1990

US-PAT-NO: 4937167

DOCUMENT-IDENTIFIER: US 4937167 A

TITLE: Process for controlling the electrical characteristics of toners

DATE-ISSUED: June 26, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moffat; Karen A.	Brantford			CA
Breton; Marcel P.	Mississauga			CA
Martin; Trevor I.	Burlington			CA
Gerroir; Paul J.	Toronto			CA

US-CL-CURRENT: 430/137.12; 430/107.1, 430/108.8, 430/110.2, 430/138

ABSTRACT:

Disclosed is a process for controlling the electrical characteristics of colored toner particles. The process comprises preparing a first core material comprising first pigment particles, core monomers, a free radical initiator, and optional polymer components; preparing a second core material which comprises second pigment particles, core monomers, a free radical initiator, and optional polymer components, said second pigment particles being of a different color from that of the first pigment particles; encapsulating separately the first core material and the second core material within polymeric shells by means of interfacial polymerization reactions between at least two shell monomers, of which at least one is soluble in aqueous media and at least one of which is soluble in organic media, wherein the polymeric shell encapsulating the first core material is of substantially the same composition as the polymeric shell encapsulating the second core material; and subsequently polymerizing the first and second core monomers via free radical polymerization, thereby producing two encapsulated heat fusible toner compositions of different colors with similar triboelectric charging characteristics.

45 Claims, 2 Drawing figures
Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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└ 9. Document ID: US 4889877 A

L9: Entry 9 of 9

File: USPT

Dec 26, 1989

US-PAT-NO: 4889877

DOCUMENT-IDENTIFIER: US 4889877 A

TITLE: High solids CB printing ink

DATE-ISSUED: December 26, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Seitz; Michael E. A.	Dayton	OH		

US-CL-CURRENT: 523/161; 106/31.33, 106/31.36, 106/31.37, 106/31.43, 106/31.55,
106/31.65, 106/31.68, 106/31.69, 106/31.75, 106/31.84, 503/214, 503/215, 523/210

ABSTRACT:

A high solids content, aqueous, microcapsule-containing printing ink is prepared by forming microcapsules in situ in a printing ink vehicle. The microcapsules are preferably prepared by interfacial polymerization or interfacial crosslinking between a reactant, such as a polyisocyanate dissolved in an oily solution and a coreactant such as a polysalt of casein and diethylene triamine present in an aqueous solution into which the oily solution is dispensed. The aqueous solution contains water and a non-volatile diluent such as a non-reducing sugar, for example methyl glucoside. The printing ink preferably has a 60-70% by weight solids content and may be used as a low-coat-weight CB coating for preparing carbonless copy paper.

12 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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